TMR-RF960R

SERVICE MANUAL

US Model
Canadian Model

Ver 1.0 2004. 02

TMR-RF960R is the component model block one in the MDR-RF960RK or MDR-RF920RK.

COMPONENT MODEL NAME FOR MDR-RF920RK/ MDR-RF960RK

	MDR-RF920RK	MDR-RF960RK
Wireless Stereo Headphones	MDR-RF920R	MDR-RF960R
Transmitter	TMR-RF960R	TMR-RF960R

SPECIFICATIONS

General

Carrier frequency	913.5 – 914.5 MHz
Channel	Ch1, Ch2, Ch3
Modulation	FM stereo
Frequency response	MDR-RF920R : 20 – 20,000 Hz MDR-RF960R : 10 – 22,000 Hz

Transmitter

Power source	DC 9 V: supplied AC power adaptor
Audio input	phono jacks/stereo mini jack
Dimensions	Approx. 133 x 124 x 136 mm ($5\ ^1/_4$ x 5 x $5\ ^3/_8$ in.) (w/h/d)
Mass	Approx. 195 g (7 oz.)

TRANSMITTER

9-877-526-01
2004B02-1
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Personal Audio Company
Published by Sony Engineering Corporation

SONY®

SECTION 1
GENERAL

This section is extracted from instruction manual.

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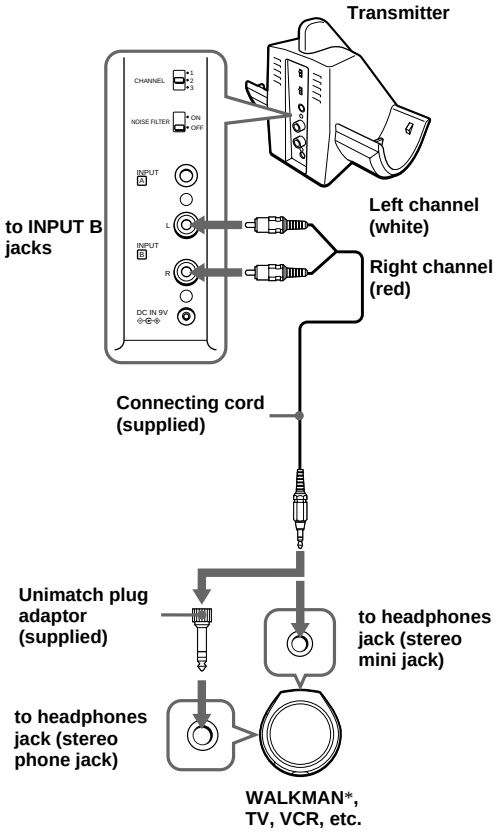
Setting up the transmitter

1 Connect the transmitter to audio/video equipment.

Select one of the hookups below depending on the jack type:

Ⓐ To connect to a headphones jack



SAFETY CHECK-OUT

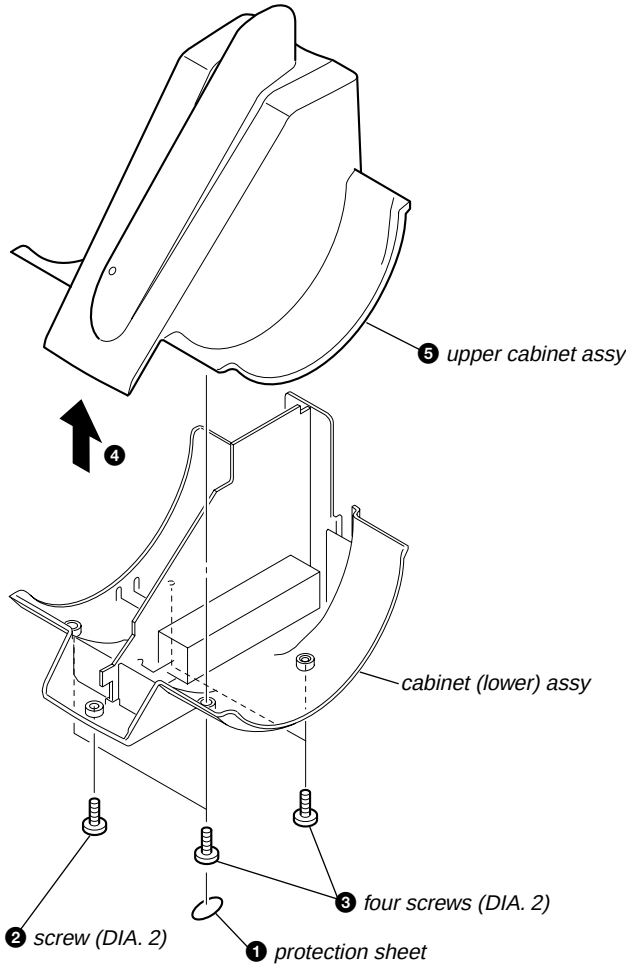
After correcting the original service problem, perform the following safety checks before releasing the set to the customer.

1. Check the area of your repair for unsoldered or poorly-sol deredconnections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are “pinched” or contact high-wattage resistors.
3. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
4. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
5. Check the B+ voltage to see it is at the values specified.
6. Flexible Circuit Board Repairing
   - Keep the temperature of the soldering iron around 270°C during repairing.
   - Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
   - Be careful not to apply force on the conductor when soldering

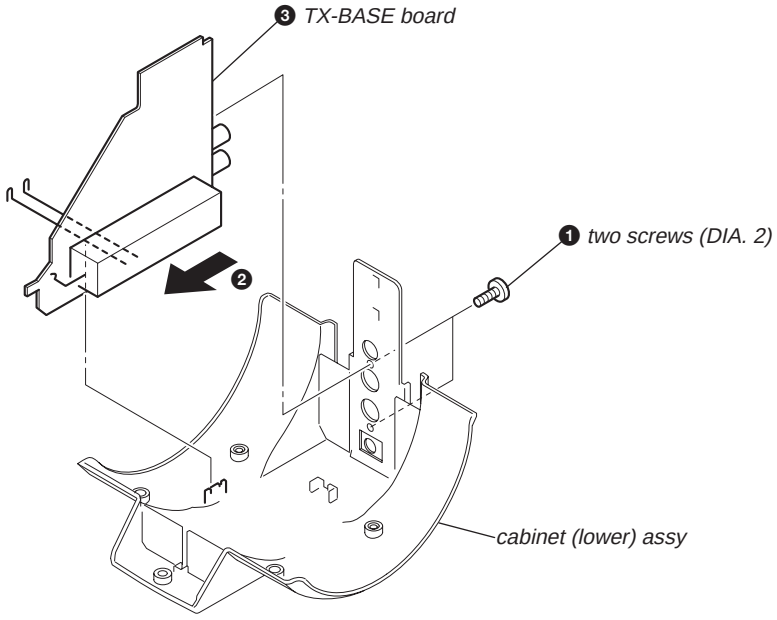
SECTION 2
DISASSEMBLY

• This set can be disassembled in the order shown below.

2-1. UPPER CABINET ASSY

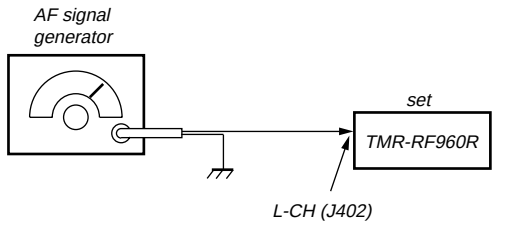


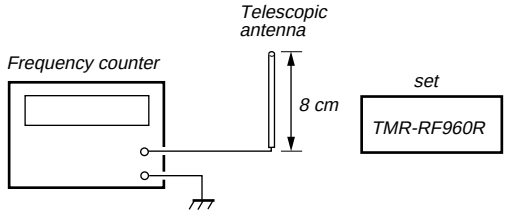
2-2. TX-BASE BOARD



SECTION 3
ELECTRICAL ADJUSTMENTS

Setting :





Transmission Frequency Check

1. Set the noise filter SW to OFF.
2. Input a signal of 1 kHz 40 mVrms to only the L-CH (J402).
3. Connect a telescopic antenna to the frequency counter input and extend the antenna to a length of approximately 8 cm.
4. Place TX-BASE board close to the frequency counter, then measure the frequencies of CH1, CH2 and CH3 and make sure the values are as follows:
   CH1 : 913.5 MHz ± 200 kHz
   CH2 : 914.0 MHz ± 200 kHz
   CH3 : 914.5 MHz ± 200 kHz

When the frequency is not satisfied the specified value, set the channel switch (S402) to CH2, then adjust the value of the frequency counter to 914.0 MHz by CT501 in the TX-VCO BLOCK.

Standard value :913.9MHz to 914.1MHz

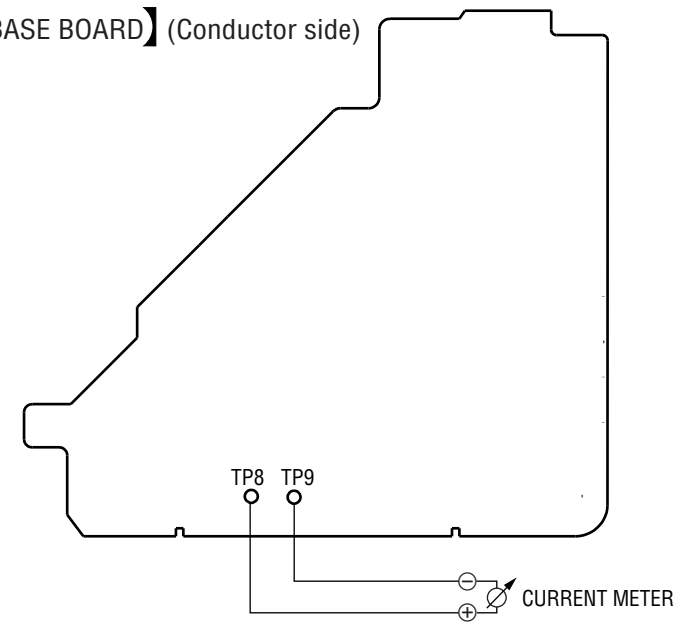
When completed with replacement, recheck the frequencies of CH1, CH2 and CH3.

Charge Current Check

1. Connect the ammmeter ⊕ and ⊖ probes to TP8 and 9.
2. The green LED (on charging) turns on.
   Make sure the reading on the current meter becomes to the standard value.

Standard value: 45±5mA

【TX-BASE BOARD】(Conductor side)

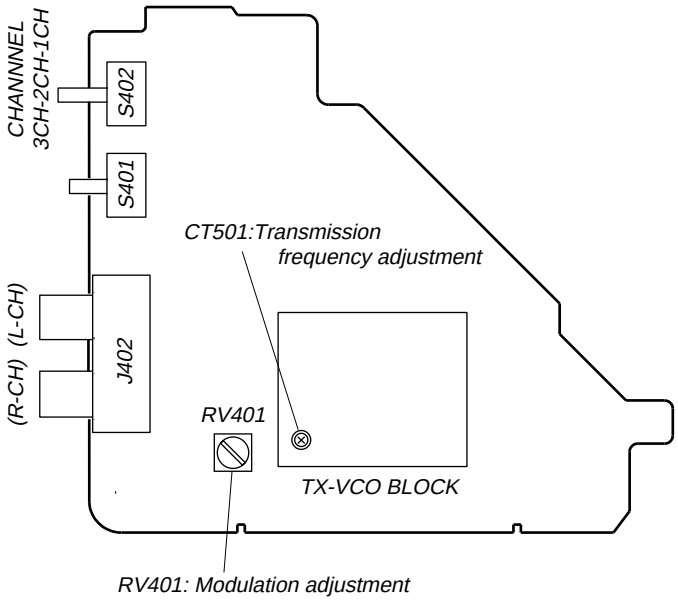


Pilot signal Modulation Check and Adjustment

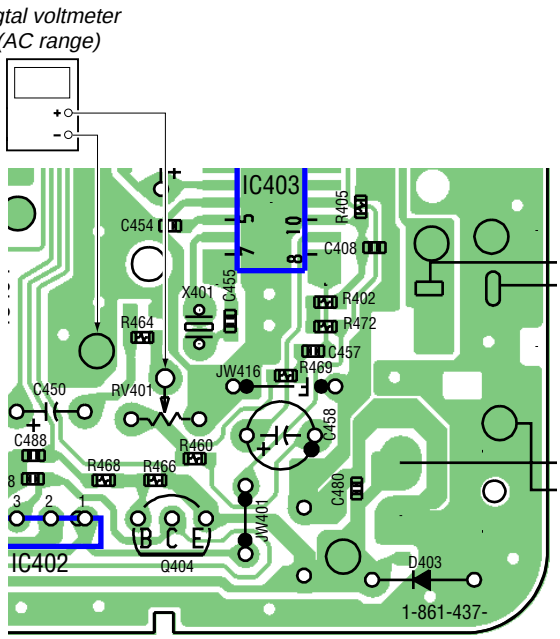
1. Set the channel to CH2.
2. An electric wave is output for 5 or 10 minutes when OFF to ON a power supply (LED (POWER) will ON).
3. Measure the center terminal of RV401 using an digital voltmeter (AC range) and make sure the value is 2.65 to 2.75mVrms.
   If the measured value is other than the specified value, adjust to 2.65 to 2.75mVrms by turning the RV401 on the TX-BASE board.

Connection points and Adjustment Location :

【TX-BASE BOARD】(Component side)

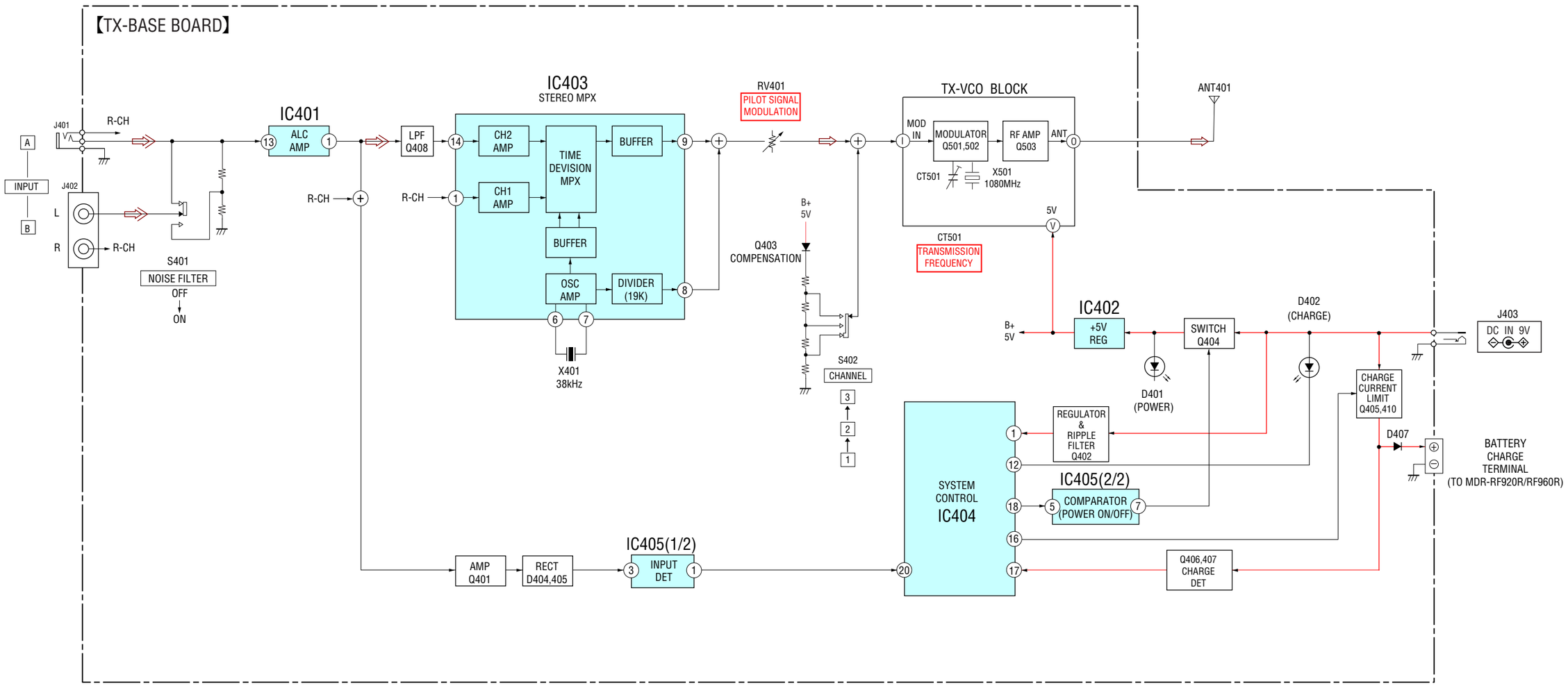


【TX-BASE BOARD】(Conductor side)



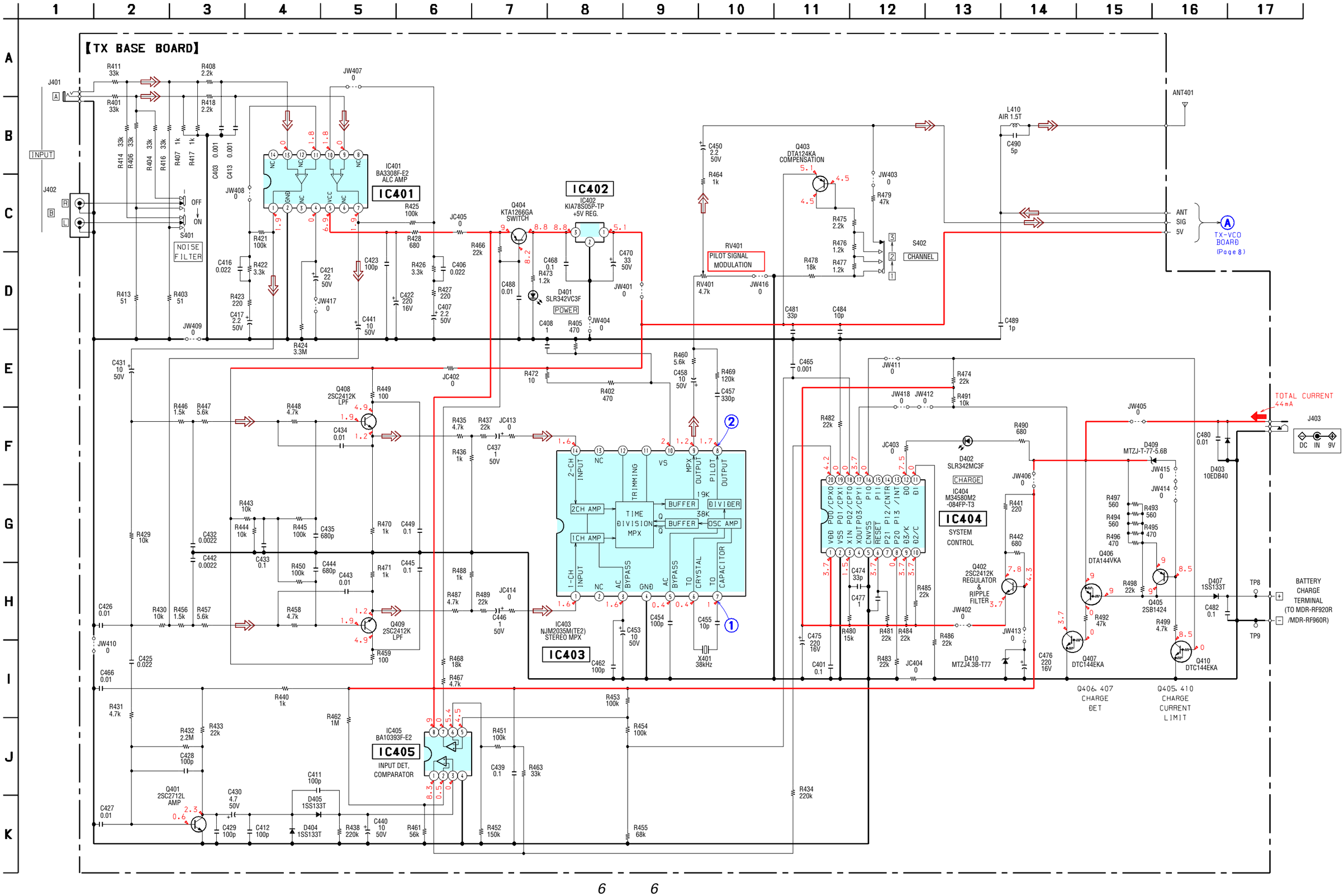
SECTION 4
DIAGRAMS

4-1. BLOCK DIAGRAM

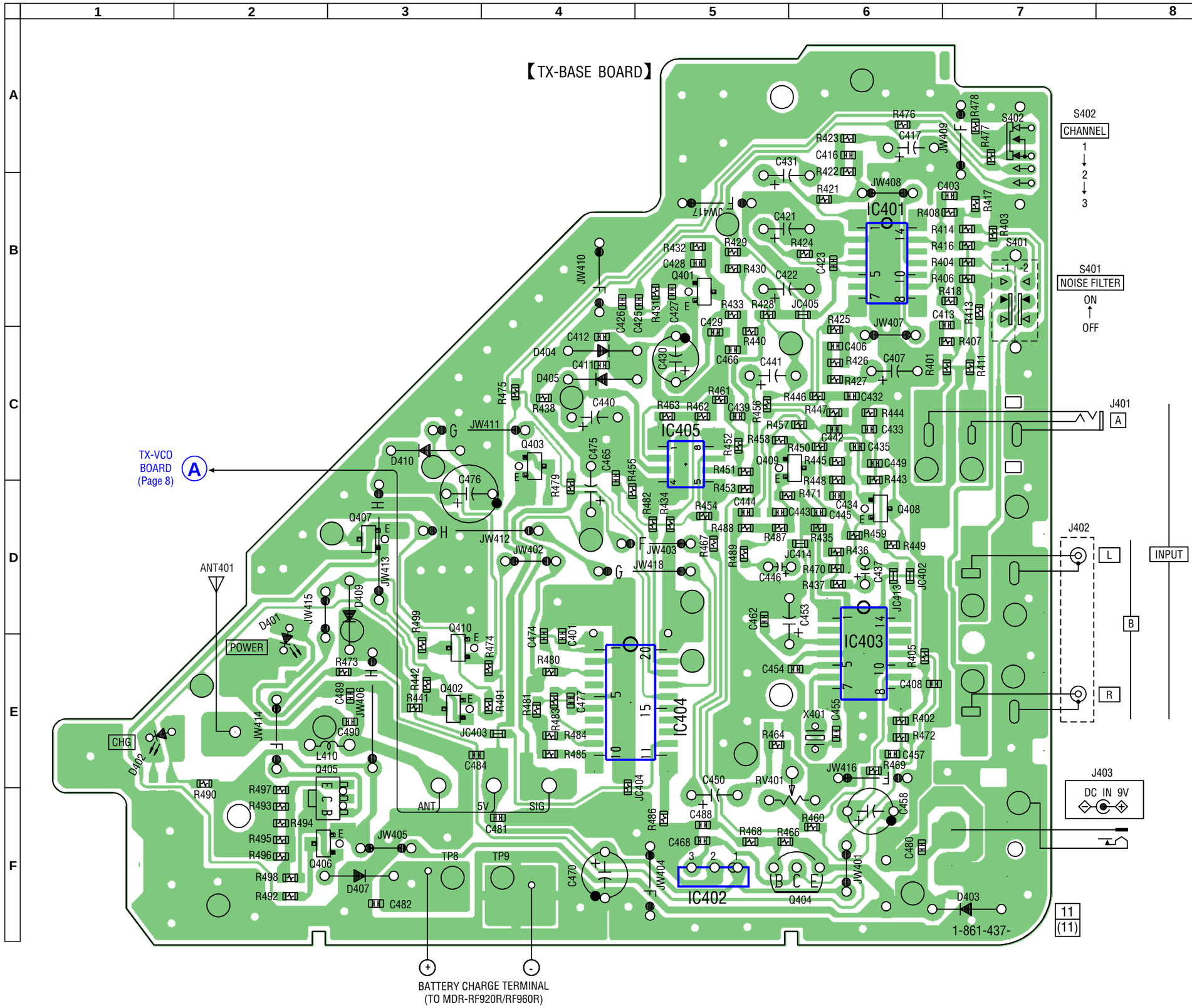


- R-ch is omitted due to same as L-ch
- Signal path.
  ⇒ : AUDIO
  ⇨ : FM

4-2. SCHEMATIC DIAGRAM – TX-BASE BAORD –



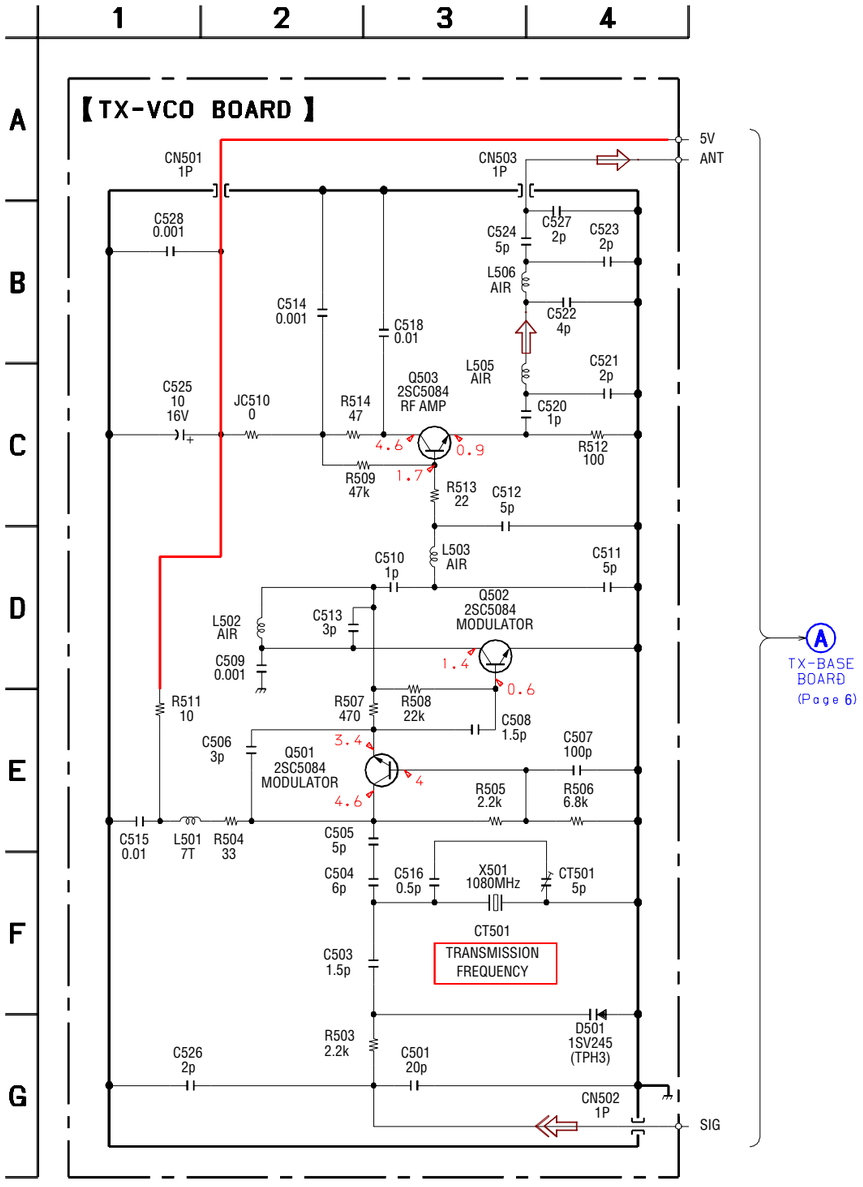
4-3. PRINTED WIRING BOARD – TX-BASE BAORD –



- **Semiconductor Location**

Ref. No.	Location
D401	E-2
D402	E-1
D403	F-7
D404	C-4
D405	C-4
D407	F-3
D409	D-3
D410	C-3
IC401	A-6
IC402	F-5
IC403	E-6
IC404	E-5
IC405	C-5
Q401	
Q402	E-3
Q403	C-4
Q404	F-6
Q405	F-2
Q406	F-2
Q407	D-3
Q408	D-6
Q409	C-6
Q410	E-3

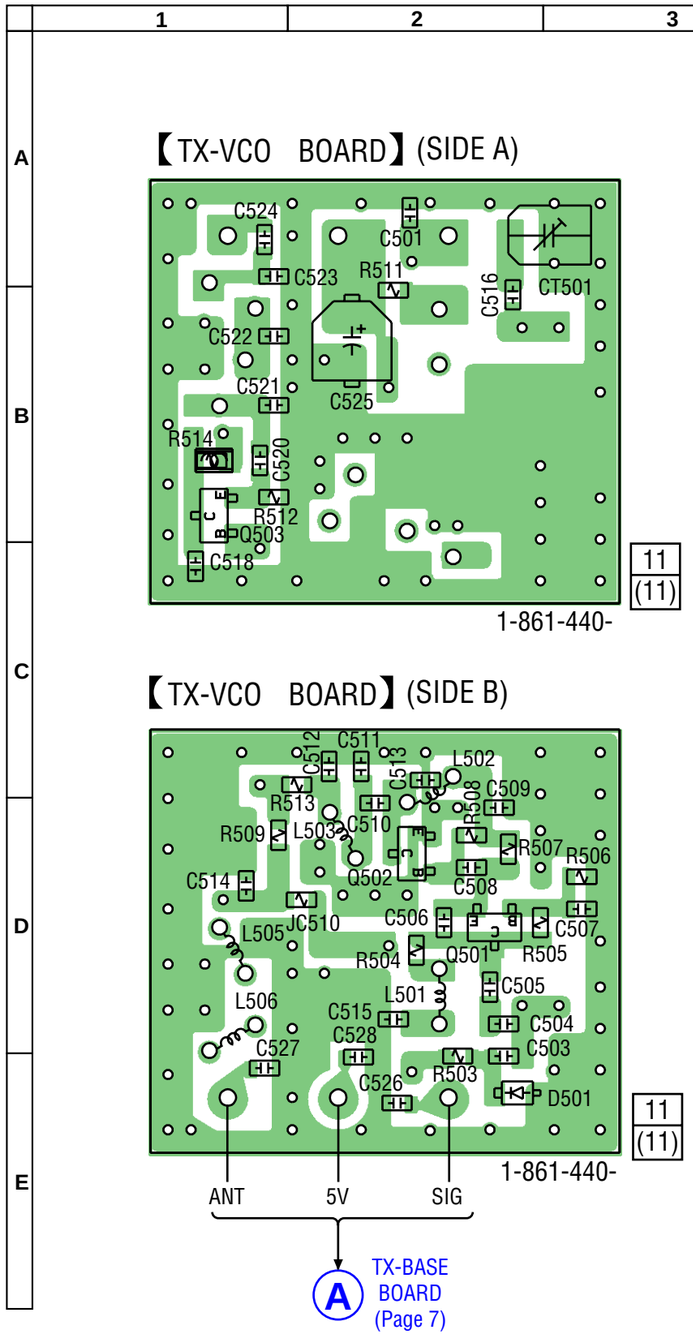
4-4. SCHEMATIC DIAGRAM – TX-VCO BAORD –



Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ▬ : B+ Line.
- ▭ : adjustment for repair.
- Power voltage is dc 9 V and fed with regulated dc power supply from external power voltage jack.
- Voltages are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10 MΩ).
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM
  ⇨ : AUDIO

4-5. PRINTED WIRING BOARD – TX-VCO BAORD –



- **Semiconductor Location**

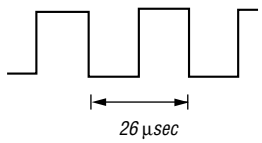
Ref. No.	Location
D501	E-2
Q501	D-2
Q502	D-2
Q503	B-1

Note on Printed Wiring Boards:

- o——— : parts extracted from the component side.
- ▬ : Pattern from the side which enables seeing.

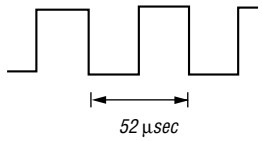
- **WAVEFORMS**

① IC403 ⑦ CAPACITOR



VOL/DIV : 0.5 V AC
TIME/DIV : 10 µsec

② IC403 ⑧ PILOT OUTPUT

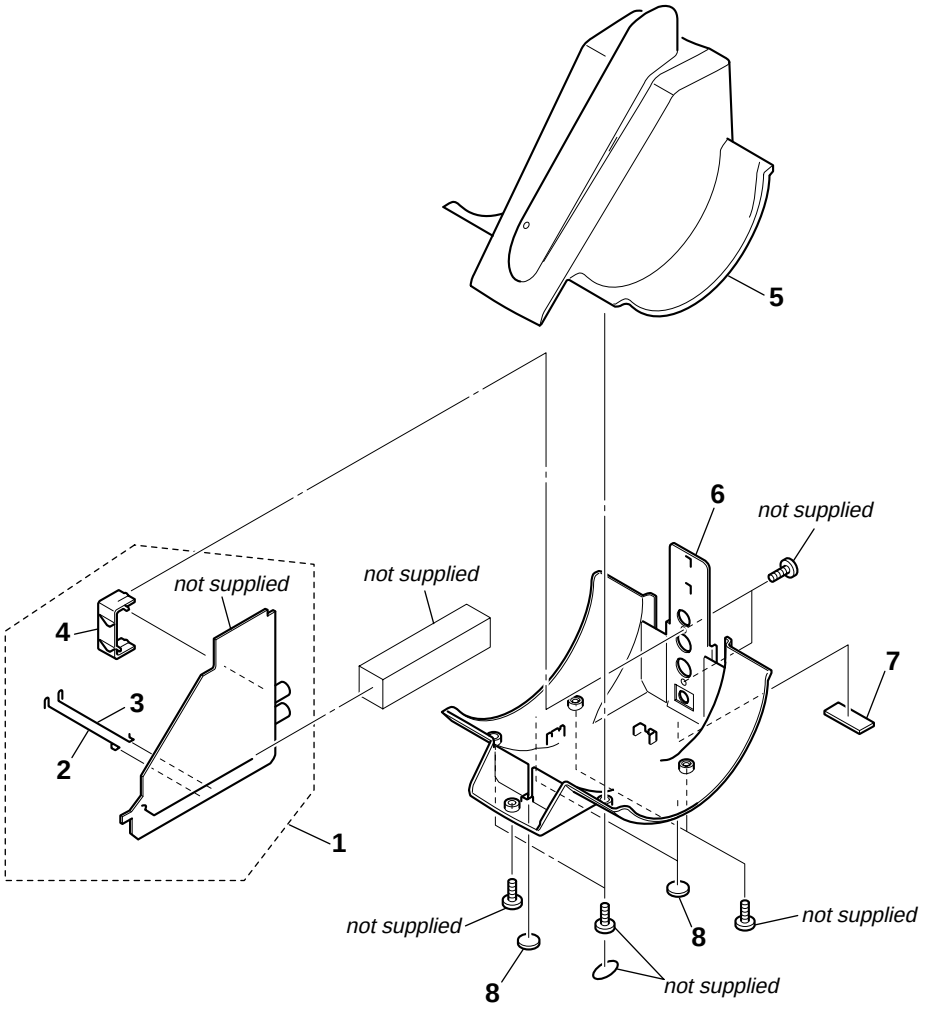


VOL/DIV : 0.5 V AC
TIME/DIV : 20 µsec

SECTION 5
EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories are given in the last of this parts list.



Ref. No.	Part No.	Description	Remarks
* 1	A-4547-110-A	TX-BASE BOARD, COMPLETE (including TX-VCO BOARD)	
2	3-246-378-02	TERMINAL (+), CHARGE	
3	3-246-379-02	TERMINAL (-), CHARGE	
4	3-246-372-01	BRACKET, JACK	
5	X-3384-856-1	CABINET ASSY, UPPER	
6	3-246-376-31	CABINET (LOWER)	
7	3-246-966-01	FOOT (BACK), RUBBER	
8	4-984-729-01	FOOT, RUBBER	

SECTION 6
ELECTRICAL PARTS LIST

TX-BASE **TX-VCO**

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: µF
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: µH
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , uPC... , µPC... ,
  uPD..., µPD...

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remarks
*	A-4547-110-A	TX-BASE BOARD, COMPLETE (including TX-VCO BOARD)			
		**********			
	3-246-372-01	BRACKET, JACK			
	3-246-378-02	TERMINAL (+), CHARGE			
	3-246-379-02	TERMINAL (-), CHARGE			
		< CAPACITOR >			
C401	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C403	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C406	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C407	1-126-961-11	ELECT	2.2uF	20%	50V
C408	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C411	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C412	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C413	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C416	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C417	1-126-961-11	ELECT	2.2uF	20%	50V
C421	1-126-965-91	ELECT	22uF	20%	50V
C422	1-126-934-11	ELECT	220uF	20%	16V
C423	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C425	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C426	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C427	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C428	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C429	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C430	1-126-963-11	ELECT	4.7uF	20%	50V
C431	1-126-964-11	ELECT	10uF	20%	50V
C432	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C433	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C434	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C435	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C437	1-126-160-11	ELECT	1uF	20%	50V
C439	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C440	1-126-964-11	ELECT	10uF	20%	50V
C441	1-126-964-11	ELECT	10uF	20%	50V
C442	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C443	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C444	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C445	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C446	1-126-160-11	ELECT	1uF	20%	50V
C449	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C450	1-126-961-11	ELECT	2.2uF	20%	50V
C453	1-126-964-11	ELECT	10uF	20%	50V
C454	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C455	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C457	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C458	1-126-964-11	ELECT	10uF	20%	50V
C462	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C465	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C466	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C468	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C470	1-126-966-11	ELECT	33uF	20%	50V
C474	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C475	1-126-934-11	ELECT	220uF	20%	16V
C476	1-126-934-11	ELECT	220uF	20%	16V
C477	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C480	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C481	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C482	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C484	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C488	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C489	1-162-905-11	CERAMIC CHIP	1PF	0.25PF	50V
C490	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C501	1-164-160-11	CERAMIC CHIP	20PF	5.00%	50V
C503	1-162-906-11	CERAMIC CHIP	1.5PF	0.25PF	50V
C504	1-162-911-11	CERAMIC CHIP	6PF	0.50PF	50V
C505	1-164-115-91	CERAMIC CHIP	5PF	0.25PF	50V
C506	1-162-908-11	CERAMIC CHIP	3PF	0.25PF	50V
C507	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C508	1-162-906-11	CERAMIC CHIP	1.5PF	0.25PF	50V
C509	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C510	1-162-905-11	CERAMIC CHIP	1PF	0.25PF	50V
C511	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C512	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C513	1-162-908-11	CERAMIC CHIP	3PF	0.25PF	50V
C514	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C515	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C516	1-162-904-11	CERAMIC CHIP	0.5PF	0.25PF	50V
C518	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C520	1-162-905-11	CERAMIC CHIP	1PF	0.25PF	50V
C521	1-162-907-11	CERAMIC CHIP	2PF	0.25PF	50V
C522	1-162-909-11	CERAMIC CHIP	4PF	0.25PF	50V
C523	1-162-907-11	CERAMIC CHIP	2PF	0.25PF	50V
C524	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C525	1-124-779-00	ELECT CHIP	10uF	20%	16V
C526	1-162-907-11	CERAMIC CHIP	2PF	0.25PF	50V
C527	1-162-907-11	CERAMIC CHIP	2PF	0.25PF	50V
C528	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V

TMR-RF960R

TX-BASE TX-VCO

Ref. No.	Part No.	Description	Remarks
		< TRIMMER >	
CT501	1-141-325-11	CAP, CHIP TYPE TRIMMER 5PF (TRANSMISSION FREQUENCY)	
		< DIODE >	
D401	8-719-059-98	DIODE SLR-342VC3F (POWER)	
D402	8-719-056-07	DIODE SLR-342MC3F (CHG)	
D403	6-500-522-01	DIODE 10EDB40-TA1B2	
D404	8-719-991-33	DIODE 1SS133T-77	
D405	8-719-991-33	DIODE 1SS133T-77	
D407	8-719-991-33	DIODE 1SS133T-77	
D409	8-719-109-89	DIODE RD5.6ESB2	
D410	8-719-982-11	DIODE MTZJ-4.3B	
D501	6-500-056-01	DIODE 1SV245(TPH3)	
		< IC >	
IC401	8-759-998-71	IC BA3308F-E2	
IC402	8-759-537-90	IC KIA78S05P-TP	
IC403	8-759-667-59	IC NJM2035M(TE2)	
IC404	6-803-030-01	IC M34580M2-084FP-T3	
IC405	8-759-510-73	IC BA10393F-E2	
		< JACK >	
J401	1-566-822-51	JACK (INPUT A)	
J402	1-817-092-12	JACK, PIN (INPUT B)	
J403	1-778-380-11	JACK,DC(POLARITY UNIFIED TYPE) (DC IN 9V)	
		< JUMPER RESISTOR >	
JC402	1-216-864-11	METAL CHIP 0 5% 1/10W	
JC403	1-216-864-11	METAL CHIP 0 5% 1/10W	
JC404	1-216-864-11	METAL CHIP 0 5% 1/10W	
JC405	1-216-864-11	METAL CHIP 0 5% 1/10W	
JC413	1-216-864-11	METAL CHIP 0 5% 1/10W	
JC414	1-216-864-11	METAL CHIP 0 5% 1/10W	
JC510	1-216-864-11	METAL CHIP 0 5% 1/10W	
		< COIL >	
L410	1-419-662-12	COIL , AIR-CORE	
L501	1-416-806-13	COIL , AIR-CORE	
L502	1-419-662-12	COIL , AIR-CORE	
L503	1-419-662-12	COIL , AIR-CORE	
L505	1-419-662-22	COIL , AIR-CORE	
L506	1-419-662-22	COIL , AIR-CORE	
		< TRANSISTOR >	
Q401	8-729-200-72	TRANSISTOR 2SC2712L-TE85L	
Q402	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q403	8-729-040-78	TRANSISTOR DTA124GKA-T146	
Q404	8-729-045-00	TRANSISTOR KTA1266GR-AT	
Q405	8-729-049-50	TRANSISTOR 2SB1424-T100-R	
Q406	8-729-027-40	TRANSISTOR DTA144VKA-T146	
Q407	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q408	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q409	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q410	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q501	8-729-043-92	TRANSISTOR 2SC5084-0(TE85L)	
Q502	8-729-043-92	TRANSISTOR 2SC5084-0(TE85L)	
Q503	8-729-043-92	TRANSISTOR 2SC5084-0(TE85L)	
		< RESISTOR >	
R401	1-216-839-11	METAL CHIP 33K 5% 1/10W	
R402	1-216-817-11	METAL CHIP 470 5% 1/10W	
R403	1-218-661-11	METAL CHIP 51 5% 1/10W	
R404	1-216-839-11	METAL CHIP 33K 5% 1/10W	
R405	1-216-817-11	METAL CHIP 470 5% 1/10W	
R406	1-216-839-11	METAL CHIP 33K 5% 1/10W	
R407	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R408	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R411	1-216-839-11	METAL CHIP 33K 5% 1/10W	
R413	1-218-661-11	METAL CHIP 51 5% 1/10W	
R414	1-216-839-11	METAL CHIP 33K 5% 1/10W	
R416	1-216-839-11	METAL CHIP 33K 5% 1/10W	
R417	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R418	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R421	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R422	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
R423	1-216-813-11	METAL CHIP 220 5% 1/10W	
R424	1-216-863-11	METAL CHIP 3.3M 5% 1/10W	
R425	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R426	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
R427	1-216-813-11	METAL CHIP 220 5% 1/10W	
R428	1-216-819-11	METAL CHIP 680 5% 1/10W	
R429	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R430	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R431	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R432	1-216-861-11	METAL CHIP 2.2M 5% 1/10W	
R433	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R434	1-216-849-11	METAL CHIP 220K 5% 1/10W	
R435	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R436	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R437	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R438	1-216-849-11	METAL CHIP 220K 5% 1/10W	
R440	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R441	1-216-813-11	METAL CHIP 220 5% 1/10W	
R442	1-216-819-11	METAL CHIP 680 5% 1/10W	
R443	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R444	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R445	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R446	1-216-823-11	METAL CHIP 1.5K 5% 1/10W	
R447	1-216-830-11	METAL CHIP 5.6K 5% 1/10W	
R448	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R449	1-216-809-11	METAL CHIP 100 5% 1/10W	
R450	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R451	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R452	1-216-847-11	METAL CHIP 150K 5% 1/10W	
R453	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R454	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R455	1-216-843-11	METAL CHIP 68K 5% 1/10W	
R456	1-216-823-11	METAL CHIP 1.5K 5% 1/10W	
R457	1-216-830-11	METAL CHIP 5.6K 5% 1/10W	
R458	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R459	1-216-809-11	METAL CHIP 100 5% 1/10W	
R460	1-216-830-11	METAL CHIP 5.6K 5% 1/10W	
R461	1-216-842-11	METAL CHIP 56K 5% 1/10W	

Ref. No.	Part No.	Description			Remarks
R462	1-216-857-11	METAL CHIP	1M	5%	1/10W
R463	1-216-839-11	METAL CHIP	33K	5%	1/10W
R464	1-216-821-11	METAL CHIP	1K	5%	1/10W
R466	1-216-837-11	METAL CHIP	22K	5%	1/10W
R467	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R468	1-216-836-11	METAL CHIP	18K	5%	1/10W
R469	1-216-846-11	METAL CHIP	120K	5%	1/10W
R470	1-216-821-11	METAL CHIP	1K	5%	1/10W
R471	1-216-821-11	METAL CHIP	1K	5%	1/10W
R472	1-216-797-11	METAL CHIP	10	5%	1/10W
R473	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R474	1-216-837-11	METAL CHIP	22K	5%	1/10W
R475	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R476	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R477	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R478	1-216-836-11	METAL CHIP	18K	5%	1/10W
R479	1-216-841-11	METAL CHIP	47K	5%	1/10W
R480	1-216-835-11	METAL CHIP	15K	5%	1/10W
R481	1-216-837-11	METAL CHIP	22K	5%	1/10W
R482	1-216-837-11	METAL CHIP	22K	5%	1/10W
R483	1-216-837-11	METAL CHIP	22K	5%	1/10W
R484	1-216-837-11	METAL CHIP	22K	5%	1/10W
R485	1-216-837-11	METAL CHIP	22K	5%	1/10W
R486	1-216-837-11	METAL CHIP	22K	5%	1/10W
R487	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R488	1-216-821-11	METAL CHIP	1K	5%	1/10W
R489	1-216-837-11	METAL CHIP	22K	5%	1/10W
R490	1-216-819-11	METAL CHIP	680	5%	1/10W
R491	1-216-833-11	METAL CHIP	10K	5%	1/10W
R492	1-216-841-11	METAL CHIP	47K	5%	1/10W
R493	1-216-818-11	METAL CHIP	560	5%	1/10W
R494	1-216-818-11	METAL CHIP	560	5%	1/10W
R495	1-216-817-11	METAL CHIP	470	5%	1/10W
R496	1-216-817-11	METAL CHIP	470	5%	1/10W
R497	1-216-818-11	METAL CHIP	560	5%	1/10W
R498	1-216-837-11	METAL CHIP	22K	5%	1/10W
R499	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R503	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R504	1-216-803-11	METAL CHIP	33	5%	1/10W
R505	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R506	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R507	1-216-817-11	METAL CHIP	470	5%	1/10W
R508	1-216-837-11	METAL CHIP	22K	5%	1/10W
R509	1-216-841-11	METAL CHIP	47K	5%	1/10W
R511	1-216-797-11	METAL CHIP	10	5%	1/10W
R512	1-216-809-11	METAL CHIP	100	5%	1/10W
R513	1-216-801-11	METAL CHIP	22	5%	1/10W
R514	1-216-805-11	METAL CHIP	47	5%	1/10W
		< VARIABLE RESISTOR >			
RV401	1-241-763-11	RES, ADJ, CARBON 4.7K (PILOT SIGNAL MODULATION)			
		< SWITCH >			
S401	1-571-850-61	SWITCH, SLIDE (NOISE FILTER)			
S402	1-692-591-21	SWITCH, SLIDE (CHANNEL)			

Ref. No.	Part No.	Description	Remarks
		< VIBRATOR >	
X401	1-781-850-11	VIBRATOR, CRYSTAL (38kHz)	
X501	1-781-175-21	OSCILLATOR, DIELECTRICS (1080MHz)	

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REVISION HISTORY

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Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2004.02	New